

IN THE CLAIMS:

The pending claims are set forth below and have been amended and/or cancelled, without prejudice, where noted:

1. (Cancelled)
2. (Previously Presented) The composition of claim 30, wherein the ESCR enhancing additive is added to the polymer composition in amounts of from about 0.1 wt% to about 6 wt% of the composition.
3. (Previously Presented) The composition of claim 30 further comprising mineral oil in amounts of from about 0.1 wt% to about 6 wt% of the composition.
4. (Previously Presented) The composition of claim 30, wherein the resulting composition has an ESCR value greater than about 75.
5. (Previously Presented) The composition of claim 30, wherein the rubber is in the range of about 5 to 15 percent by weight.
6. (Previously Presented) The composition of claim 30, wherein more than one ESCR enhancing additive is present in the amount of about 0.5 to about 3.0 percent by weight each.
7. (Currently Amended) The composition of claim 30, wherein the ESCR enhancing additive comprises a liquid synthetic hydrocarbon at room temperature.

8. (Previously Presented) The composition of claim 30, wherein the ESCR enhancing additive comprises polymerized alpha-olefins of at least 10 carbons having a viscosity range of about 200 – 1000 cst @ 99 °C.
9. (Previously Presented) The composition of claim 30, wherein the ESCR enhancing additive comprises polymerized alpha-olefins of at least 10 carbons having a density range of about 0.80 – 0.95 g/cc @ 25 °C.
10. (Cancelled)
11. (Previously Presented) The composition of claim 30, wherein the monovinylaromatic monomer is selected from the group consisting of styrene, alphasubstituted styrene and ring-substituted styrenes.
12. (Currently Amended) The composition of claim 30, wherein the monovinylaromatic monomer comprises styrene and the at least one ESCR enhancing additives are added to the composition prior to or during polymerization.
13. (Previously Presented) The composition of claim 31, wherein the ESCR enhancing additive comprises atactic polypropylene and the final composition has an ESCR of at least 75.
14. (Previously Presented) The composition of claim 31, wherein the ESCR enhancing additive comprises copolymers of ethylene and propylene that are amorphous ethylene-propylene copolymers.

15. (Original) The composition of claim 14 wherein the molar heat of fusion for the copolymer is less than about 190 J/g.

16. (Previously Presented) The composition of claim 30 further comprising a chain transfer agent.

Claims 17-19. (Cancelled)

20. (Currently Amended) A process for producing a composition, comprising:

polymerizing a mixture of a monovinylaromatic monomer and rubber, the monovinylaromatic monomer being selected from the group consisting of styrene, alphamethyl styrene and ring-substituted styrenes, and the rubber being selected from the group consisting of polybutadiene, polyisoprene, copolymers of butadiene or isoprene with styrene, and natural rubbers; and

adding to the mixture of monomer and rubber, prior to or during the polymerizing process, at least one ESCR enhancing additive selected from alpha-olefins having the formula $RCH=CH_2$, wherein R is a C_4 to C_{50} alkyl group or mixtures of alpha-olefins, vinylidene compounds, internal olefins or saturated hydrocarbons chosen from the group consisting of polymerized alpha-olefins of at least 10 carbons.

21. (Original) The process of claim 20 further comprising adding mineral oil to the mixture in amounts of from about 0.1 wt% to about 6 wt% of the composition.

22. (Original) The process of claim 20 wherein the ESCR enhancing additive is added to the mixture in amounts of from about 0.1 wt% to about 6 wt% of the composition.

23. (Original) The process of claim 20 wherein the resulting composition has an ESCR value greater than about 75.

24. (Original) The process of claim 20 wherein the rubber is in the range of about 5 to 15 percent by weight.

25. (Original) The process of claim 20 further comprising adding a chain transfer agent to the mixture.

Claims 26-29. (Cancelled)

30. (Currently Amended) A composition comprising:

a rubber-modified polymer formed by the polymerization of a monovinylaromatic monomer in the presence of a rubber selected from the group consisting of natural rubbers, polybutadienes, polyisoprenes, and copolymers of butadienes or isoprene with styrene; and

at least one ESCR enhancing additive, wherein the ESCR enhancing additive comprises a liquid synthetic hydrocarbon at room temperature chosen from the group consisting of polymerized alpha-olefins of at least 10 carbons.

31. (Currently Amended) A composition comprising:

a rubber-modified polymer formed by the polymerization of a monovinylaromatic monomer in the presence of a rubber selected from the group consisting of natural rubbers, polybutadienes, polyisoprenes, and copolymers of butadienes or isoprene with styrene;

at least one ESCR enhancing additive selected from propylene polymers chosen from the group consisting of atactic polypropylene or polyolefin copolymers; and

mineral oil in amounts of from about 0.1 wt% to about 6 wt% of the composition.

32. (Currently Amended) A composition comprising:

a rubber-modified polymer formed by the polymerization of a monovinylaromatic monomer in the presence of a rubber selected from the group consisting of natural rubbers, polybutadienes, polyisoprenes, and copolymers of butadienes or isoprene with styrene;

at least one ESCR enhancing additive selected from propylene polymers ~~chosen from the group consisting of atactic polypropylene or polyolefin copolymers;~~ and

a chain transfer agent.